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TITLE: Integrated cross-platform batch management system

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INVENTOR-INFORMATION:

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CLAIMS:

What is claimed is:

- 1. An automated batch management system, comprising:
- a plurality of data centers, each of said data centers comprising one or more computers, each of said computers processing one or more batch jobs, wherein each of said data centers further comprises:
- a scheduling system to schedule, submit, and start said batch jobs;
- a job exception system to identify exceptions and abnormal ends (ABENDs) for said batch jobs;
- an Interactive Output Facility (IOF) to view system log files and error messages on said batch jobs; and
- an Interactive System Productivity Facility (ISPF) to edit said batch jobs;
- a client workstation, interfaced to said plurality of data centers via standard data links, for monitoring said batch jobs, processed on said computers at each of said data centers, resulting in said exceptions and said ABENDs, wherein said client workstation includes a graphical user interface to allow a user to retrieve said batch jobs resulting in said exceptions and said ABENDs from said job exception system on each of said data centers and to utilize said IOF, said ISPF, and said scheduling system at each of said data centers to monitor, analyze, and fix said batch jobs resulting in said exceptions and said ABENDs from said client workstation; and

notification means for notifying personnel concerning said batch jobs resulting in said exceptions and said ABENDs, if necessary.

2. The system of claim 1, wherein said notification means includes an E-Mail System, connected to each of said data centers via standard data links, for notifying personnel via an e-mail message.

- 3. The system of claim 1, wherein said notification means includes a Paging System, connected to each of said data centers via standard data links, for notifying personnel via an electronic pager message.
- 4. The system of claim 1, further comprising a Program Management System, connected to each of said data centers via standard data links, for creating and housing Program Management Records (PMRs) for said batch jobs.
- 5. The system of claim 1, wherein said notification means includes an autonotification system, connected to each of said data centers via standard data links, for notifying personnel.
- 6. The system of claim 1, wherein each of said data centers further comprises an application gateway for providing access to said data centers that are remotely located.
- 7. An automated batch management system for monitoring the occurrence of exceptions and abnormal ends (ABENDs) while processing batch jobs on a plurality of computer systems, comprising:

security means for accessing said automated batch management system;

input means for specifying a refresh variable to update information displayed on a client workstation, data center locations in which to monitor, and types of exceptions to monitor;

retrieve means for retrieving said batch jobs that result in exceptions and ABENDs from each of said plurality of computer systems for said client workstation;

display means for displaying said batch jobs that result in exceptions and ABENDs on said client workstation;

selection means for selecting a batch job that results in exceptions or ABENDs to obtain detailed information on said selected batch job;

means for obtaining detailed information concerning said selected batch job;

notification means for notifying key personnel concerning said selected batch job; and

action means for performing job actions on said selected batch job, wherein said job actions include one or more of:

means for viewing system log files and error messages for said selected job;

means for editing job control language for said selected job;

means for retrieving documentation for said selected job;

means for creating a program management record for said selected job;

means for reviewing a program management record for said selected job;

means for reviewing prior notification for said selected job;

means for restarting said selected job;

means for resubmitting said selected job;

means for placing on hold said selected job;

means for creating requirements for said selected job;

means for requeuing said selected job;

means for canceling said selected job; and

means for force completing said selected job.

8. The system of claim 7, wherein means for notifying key personnel concerning said

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selected batch job includes one or more of:
notification using an E-Mail System;
notification using a Paging System; and
notification by issuing a program management record using a Program Management System.
9. A method for automating a batch management system to monitor the occurrence of
exceptions and abnormal ends (ABENDs) while processing batch jobs on a plurality of
computer systems, the steps comprising:
accessing said automated batch management system using an I.D. and password;
specifying a refresh variable to update information displayed on a client workstation,
data center locations in which to monitor, and types of exceptions to monitor;
retrieving said batch jobs that result in exceptions and ABENDs from each of said
plurality of computer systems for said client workstation;
displaying said batch jobs that result in exceptions and ABENDs on said client
workstation;
selecting a batch job that results in exceptions or ABENDs to obtain detailed
information on said selected batch job;
obtaining detailed information concerning said selected batch job;
notifying key personnel concerning said selected batch job; and
performing job actions on said selected batch job, wherein said job actions include one
or more of:
viewing system log files and error messages for said selected job;
editing job control language for said selected job;
retrieving documentation for said selected job;
creating a program management record for said selected job;
reviewing a program management record for said selected job;
reviewing prior notification for said selected job;
restarting said selected job;
resubmitting said selected job;
placing on hold said selected job;
creating requirements for said selected job;
requeuing said selected job;
canceling said selected job; and
force completing said selected job.
10. The method of claim 9, wherein said step for notifying key personnel concerning
said selected batch job includes one or more of the steps of:
notifying personnel using an E-Mail System;
notifying personnel using a Paging System; and
notifying personnel by issuing a program management record using a Program Management
System.
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11. A computer program product for use within a multiuser data processing system environment, comprising:

a computer usable medium having computer readable program code means embodied in the medium for providing an automated batch management system within a networking environment for monitoring batch jobs, executing on a plurality of computer systems, for exceptions and abnormal ends during execution, the computer program product having:

computer readable code means for accessing said automated batch management system using an I.D. and password;

computer readable code means for specifying a refresh variable to update information displayed on a client workstation, data center locations in which to monitor, and types of exceptions to monitor;

computer readable code means for retrieving said batch jobs that result in exceptions and ABENDs from each of said plurality of computer systems for said client workstation;

computer readable code means for displaying said batch jobs that result in exceptions and ABENDs on said client workstation;

computer readable code means for selecting a batch job that results in exceptions or ABENDs to obtain detailed information on said selected batch job;

computer readable code means for obtaining detailed information concerning said selected batch job;

computer readable code means for notifying key personnel concerning said selected batch job; and

computer readable code means for performing job actions on said selected batch job, wherein said job actions include one or more of:

viewing system log files and error messages for said selected job;

editing job control language for said selected job;

retrieving documentation for said selected job;

creating a program management record for said selected job;

reviewing a program management record for said selected job;

reviewing prior notification for said selected job;

restarting said selected job;

resubmitting said selected job;

placing on hold said selected job;

creating requirements for said selected job;

requeuing said selected job;

canceling said selected job; and

force completing said selected job.